

JAGDPANZER IV L/70 LANG

1/35 MILITARY MINIATURE SERIES NO.88



TAMIYA
TAMIYA PLASTIC MODEL CO.
628, OSHIKA, SHIZUOKA-CITY, JAPAN.

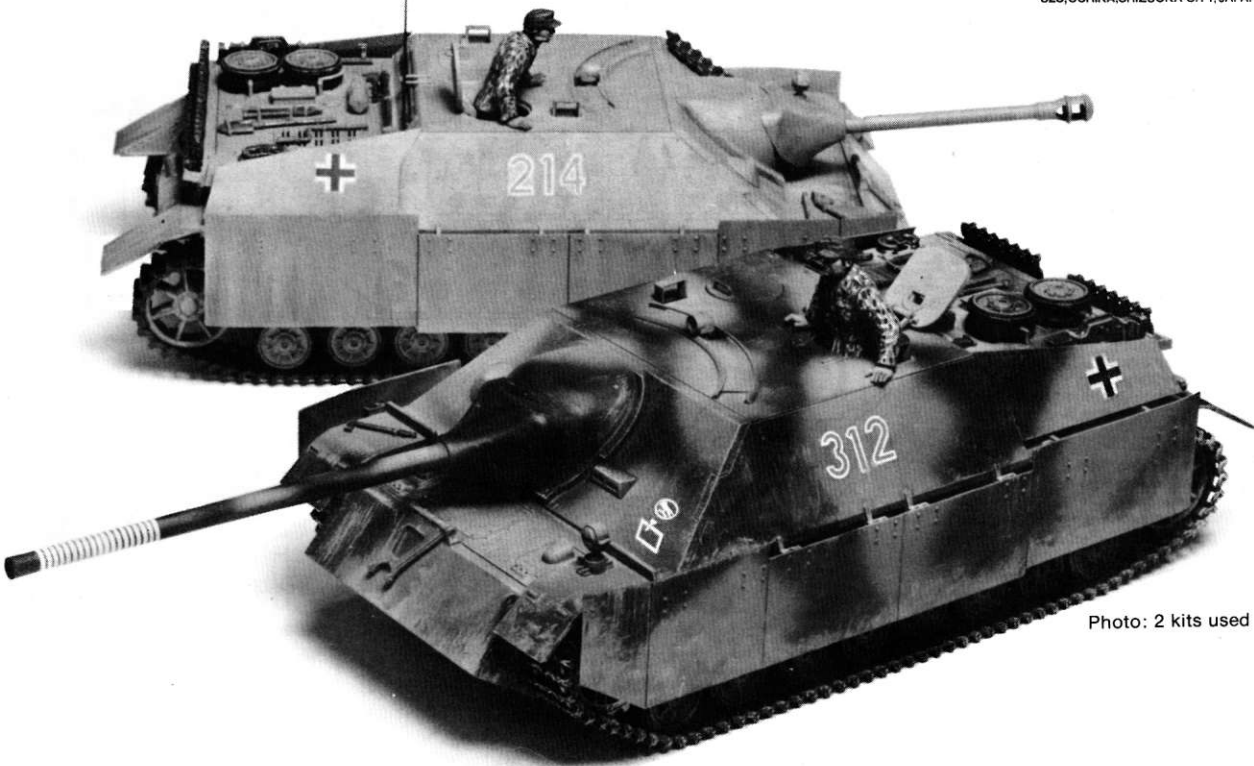


Photo: 2 kits used

The development of the later types of German self propelled guns was influenced by combat experience in the fighting on the Russian Front, particularly in the Stalingrad offensive of Sept. 1942. This led to the decision that all future SP vehicles should have front armour of at least 100 mm and side armour of up to 50 mm, with a top weight of 26 tonnes and a speed of 25 kph. It was proposed that the long gun, the 7.5 cm L/70, developed for the Panther by Rheinmetall-Borsig be used. As the PzKpfw 111 chassis was being phased out its SP derivative, the Sturmgeschütze 111, would need modification to meet the new requirements and it was decided to concentrate on adapting the hull and running gear of the PzKpfw 1V as a new assault gun (sturmgeschütz.) This was an attractive proposition to the Ordnance Department since the PzKpfw 1V remained in production as the Army's principal battle tank and there was an advantage in standardising on the power train and other components. The development order for the new design was given to Altmärkische Kettenfabrik and the project designated Gerat 822. A parallel design, identical but mounting a 10.5 cm howitzer was designated Gerat 823, but was later dropped. The design was worked out between Oct. and Dec. 1942, but due to a shortage of L/70 guns which were all diverted to Panther tank production initially, it was agreed that the earlier model 7.5 cm L/48 gun as used in the StuG 111 could be used in early production vehicles. Meanwhile General Guderian had become Inspector of Panzer Troops. He opposed building more assault guns and preferred to build PzKpfw 1V and the new Panther and Tiger tanks. He was over-ruled by Hitler, however, and the firm of Vomag were asked to make a running prototype. A mock-up was approved by Hitler in May 1943 and the designation was at this time changed from Sturmgeschütz to Panzerjäger (tank hunter.) By Oct. 1943 the prototype was approved, production vehicles entered service early in 1944. By this time the situation was getting serious for Germany and to rationalise production a long term plan was made to phase out all PzKpfw 1V

output in 1945 in favour of the new design. When production started the vehicle was re-designated Jagdpanzer 1V Ausf F L/70 (SdKfz 162) being based on the PzKpfw 1V Ausf H chassis. In the summer of 1944 it was again re-designated, this time as the Panzer 1V/70, reflecting its importance in Hitler's eyes. Because of the other priorities, notably the requirements for the Panther programme, there was some delay in getting the Jagdpanzer 1V L/70 into service and only about 1,500 vehicles were built in the last year of the war, including some which were built on unmodified PzKpfw 1V chassis, and which differed in having a higher set superstructure.

Details: combat weight 25.6 tonnes, armament one 7.5 cm Stuk 42 L/70, two 7.92 mm MG 34 or 42, top speed 24.8 mph, cross-country 10 mph, cross-country radius 80 miles, engine Maybach HL 120, V-12 of 265 bhp, ammunition 34 rds AP, 21 rds HE, length 28 ft. 1 3/4 ins. overall, width 10 ft. 6 1/2 ins. height overall 6 ft. 5 ins. Armour 60 degrees (maximum) with 80 mm on cast mantlet, and nose plate. 5 mm skirt armour.

Die Entwicklung der deutschen Kanonen mit Selbstantrieb, Abk.: SF (Selbstfahrlafette) wurden durch die Erfahrungen an der russischen Front, hauptsächlich Stalingrad, Sept. 1942 beeinflusst. Alle zukünftigen Selbstfahrlafetten sollten mindestens 100 mm Frontpanzerung und bis 50 mm an der Seite haben, Höchstgewicht bei 26 to liegen und 40 km/h.

Es war vorgesehen, die langen 7,5 L/70 Kanonen zu verwenden, die von Rheinmetall/Borsig für den Panther entwickelt waren. Da das Panzer III Chassis nicht mehr gebaut wurde, musste die Abart Sturmgeschütz III abgeändert werden um den neuen Anforderungen zu genügen und so wurde beschlossen, die Wanne, das Getriebe und Fahrwerk des Panzer IV für das neue Sturmgeschütz zu verwenden.

Da der Panzer IV weiterhin als Hauptkampfpanzer gebaut wurde, konnten die Hauptteile für das neue StuG praktisch standardisiert werden. Der Entwicklungsauftrag wurde an die Altmär-

kische Kettenfabrik gegeben und das Projekt als Gerat 822 bezeichnet.

Ein Parallelentwurf mit 10,5 cm Haubitze erhielt die Bezeichnung Gerat 823, wurde später jedoch fallengelassen. Der Entwurf wurde zwischen Oktober und Dezember 1942 ausgearbeitet, infolge Mangel an L/70 Kanonen, die fast alle für die Pantherfertigung verwendet wurden, wurde das frühere Modell 7,5 cm L/48 (wie im StuG III verwendet) in die ersten Fahrzeuge eingebaut. In der Zwischenzeit wurde General Heinz Guderian zum Inspekteur der Panzertruppen ernannt. Er war gegen Sturmgeschütze und wollte dafür mehr Panzer IV, die neuen Panther und Tiger haben. Guderian wurde von Hitler überstimmt und die Firma Vomag beauftragt, einen fahrenden Prototyp herzustellen.

Das Modell wurde von Hitler geprüft und fand dessen Zustimmung im Mai 1943, die Bezeichnung abgeändert in Panzerjäger, nicht mehr Sturmgeschütz.

Zu dieser Zeit wurde die Lage etwas kritisch, und um die Produktion rationalisieren zu können, wurde ein Langzeitplan aufgestellt, der Bau des Panzer IV sollte eingestellt werden, zu Gunsten des neuen Jagdpanzers.

Das Fahrzeug wurde nunmehr als Jagdpanzer IV Ausführung F, L/70, Sd.Kfz. 162 auf Fahrstell Panzer IV Ausf. H in Dienst gestellt, jedoch im Sommer 1944 in Panzer IV/70 umgeändert. Ungefähr 1500 Fahrzeuge wurden im letzten Kriegsjahr gebaut, einschliesslich der auf dem veränderten Panzer IV Chassis, das sich nur durch einen etwas höheren Aufbau unterschied. Crew 4 - 5 Mann, Kampfgewicht 24 to, Strasse 40 km/h, Gelände ca 16 - 20 km/h, Munition 34 Granaten AP, 21 HE, Panzerung Front 60 mm, Seite 40 mm, Heck 30 mm, Tank 470 Liter, Verbrauch 240 L, Gelände 360 l, Schürzenpanzerung 5 mm 2 MG 7.92 mm MG 34 oder MG 42 Weiter Details siehe Panzer IV

PARTS

A PARTS

1. Idler Wheels A
2. Idler Wheels B
3. Road Wheels A
4. Road Wheels B
5. Unnecessary
6. Final Cover Right
7. Upper Rollers A
8. Suspension Right
9. Drive Sprocket A
10. Drive Sprocket B
11. Upper Rollers B
12. Final Cover Left
13. Unnecessary
14. Suspension Left
- 15, 16, 17, 18. Unnecessary

B PARTS

1. Unnecessary
2. Spare Wheel A
3. Ax
4. Nut Wrench
5. Air Intake
6. Unnecessary
7. Unnecessary
8. Spanner
9. Wire Cutter
10. Crank
11. Jack C
12. Jack B
13. Jack A
14. Fire Extinguisher
15. Head Light
16. Rear Fender A
17. Periscope
18. Rear Fender B
19. Muffler C
20. Muffler D
21. Muffler A
22. Muffler B
23. Unnecessary
24. Tail Light
25. Shovel
26. Unnecessary
27. Spare Wheel B
28. Hook
29. Unnecessary
30. Unnecessary
31. Unnecessary
32. Muffler Support
33. Rear Panel Upper
34. Rear Panel Lower
35. Shaft Bearing Part A
36. C ap
37. Spring A
38. Spring B
39. Shaft Bearing Part B Right
40. Shaft Bearing Part B Left
41. Unnecessary
42. Unnecessary
43. Unnecessary
44. Unnecessary

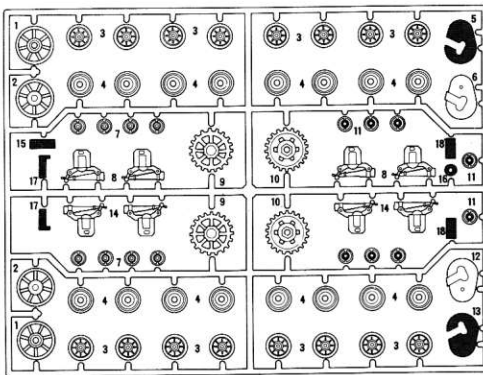
C PARTS

1. Unnecessary
2. Antenna Base
3. Hand Rail
4. Hand Rail of Hatch
5. Hook
6. Spare Antenna
7. Inspection Hatch
8. Cleaning Rod
9. Front Plate
10. Rear Hook
11. Rench
12. Front Hook
13. Upper Part
14. Gun Barrel Mouth
15. Gun Barrel Base C
16. Cannon Drum
17. Gun Barrel Base A
18. Gun Barrel Base B
19. Driver's Periscope
20. Figure Base
21. Fender Right
22. Fender Left
23. Gun Shield B
24. Gun Shield A
25. Cannon Drum
26. Figure Body
27. Figure Right Arm
28. Figure Left Arm
29. Periscope
30. Spare Track
31. Gun Barrel
32. Track
33. Loader's Hatch Hinge C
34. Loader's Hatch
35. Loader's Hatch Hinge D
36. Loader's Hatch Hinge A
37. Loader's Hatch Hinge B
38. M.G. Cover
39. Gun Travel Lock
40. Gun Travel Lock Hinge
41. Fender Stay A
42. Fender Stay B
43. Fender Right
44. Fender Left
45. Spare Wheel Ruck
46. Jack Mount
47. Commander's Hatch A
48. Commander's Hatch B
49. Commander's Hatch Hinge A
50. Commander's Hatch Hinge B
51. Commander's Hatch Hinge C
52. Commander's Hatch Hinge D
53. Periscope
54. Upper Hull

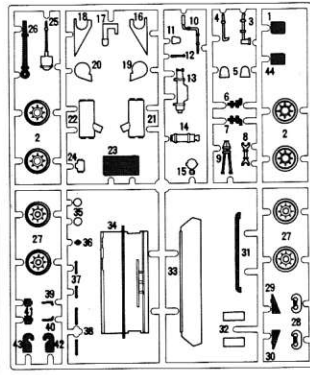
D PARTS

1. Armour Plate Left
2. Armour Plate Stay A
3. Armour Plate Part
4. Armour Plate Stay B
5. Armour Plate Stay C
6. Armour Plate Stay D
7. Gun Barrel A
8. Gun Barrel B
9. Spare Track
10. Armour Plate Right

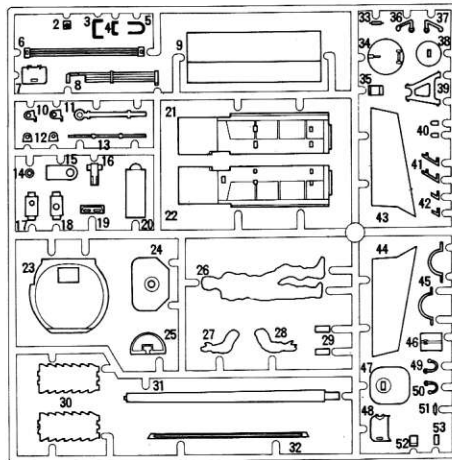
A PARTS



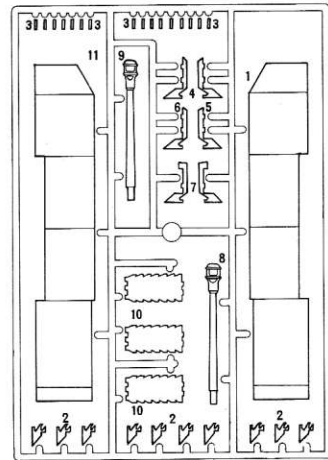
B PARTS



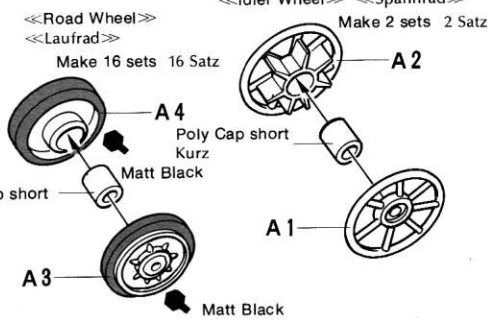
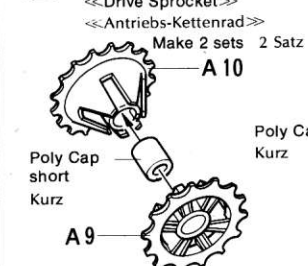
C PARTS



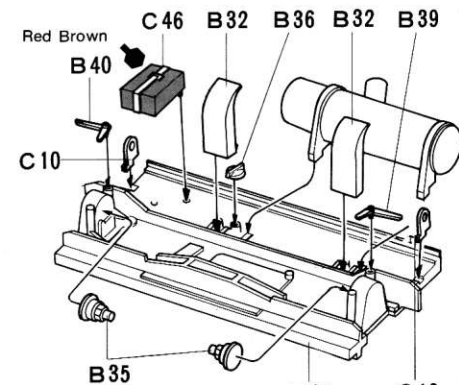
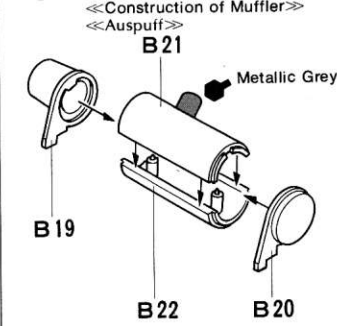
D PARTS



1 Construction of Wheels Zusammenbau der Räder

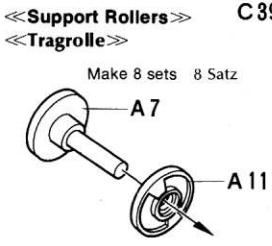


2 Construction of Rear Panel Heckplatte

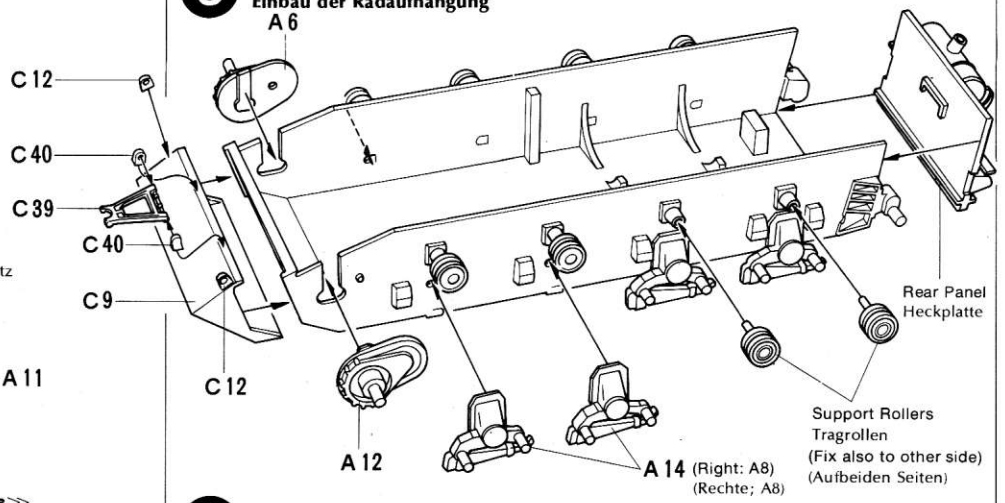


★ Study the instructions and photographs before commencing assembly.
 ★ You will need a sharp knife, a pair of pliers, a file, and a pair of tweezers.
 ★ Vor Beginn die Bauanleitung studieren und den Nummern nach die Elemente zusammenbauen.
 ★ Kleine Teile hält man mit Pinzette fest.

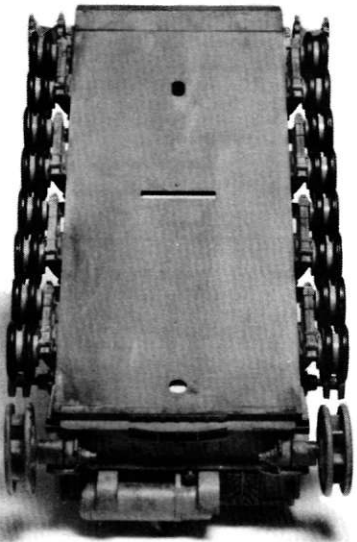
3 << Fixing of Suspension >>
<< Einbau der Radaufhängung >>



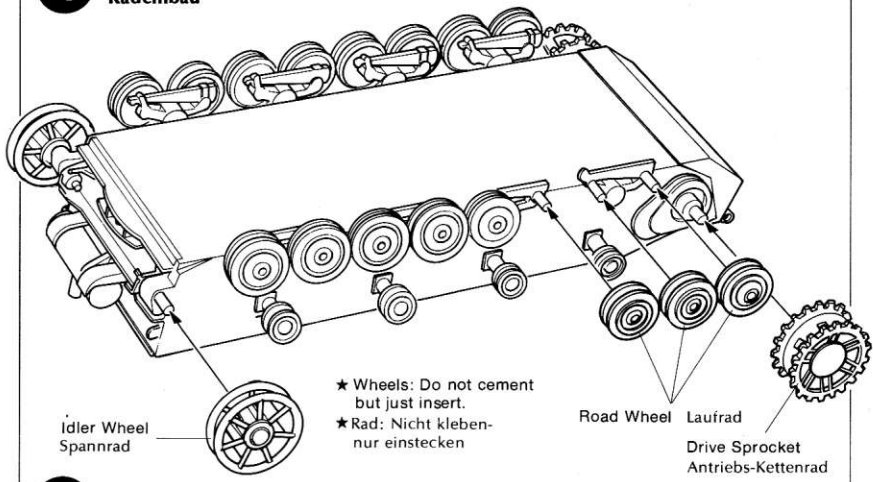
3 Fixing of Suspension
Einbau der Radaufhängung



4 << Fixing of Wheels >>
<< Radeinbau >>



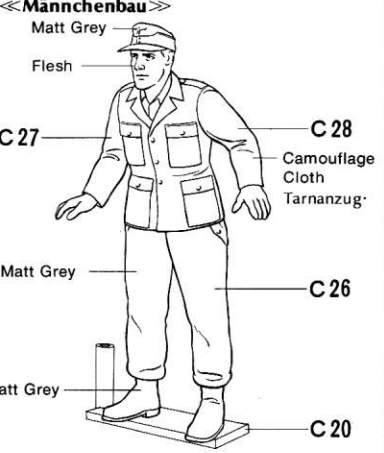
4 Fixing of Wheels
Radeinbau



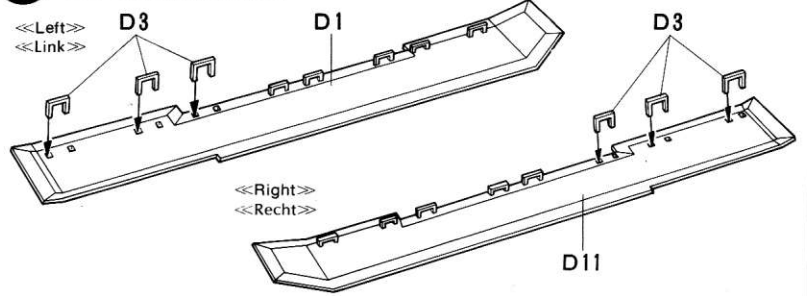
6 << Construction of Upper Hull Parts >>
<< Deckaufbauten >>

C16, C33 and C51 are movable. Do not cement.
C16, C33 und C51 sind beweglich, nicht kleben.

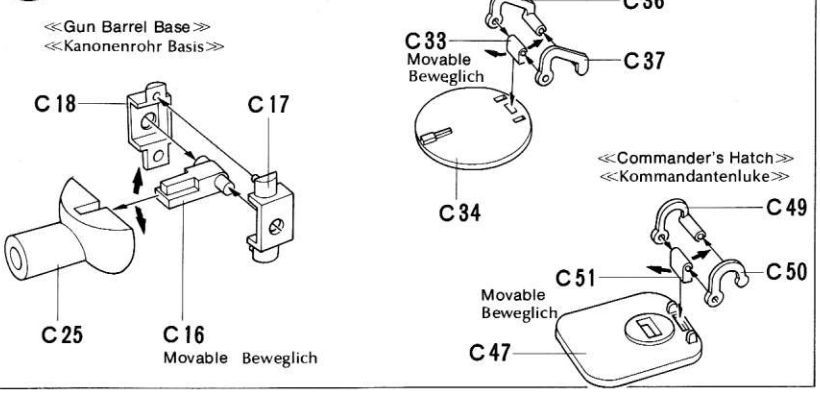
<< Construction and Painting of Figures >>
<< Männchenbau >>



5 Construction of Armour Plates
Bau der Panzerschürzen



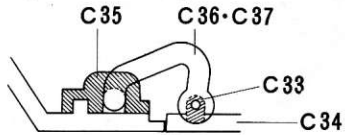
6 Construction of Upper Hull Parts
Construction der Deckaufbauten



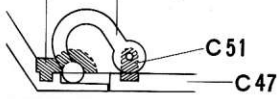
7 <<Upper Hull Inside>>
<<Innenteile>>

Hatch: Can be fixed either in open or closed position.

Luke: Offen oder geschlossen einbauen.



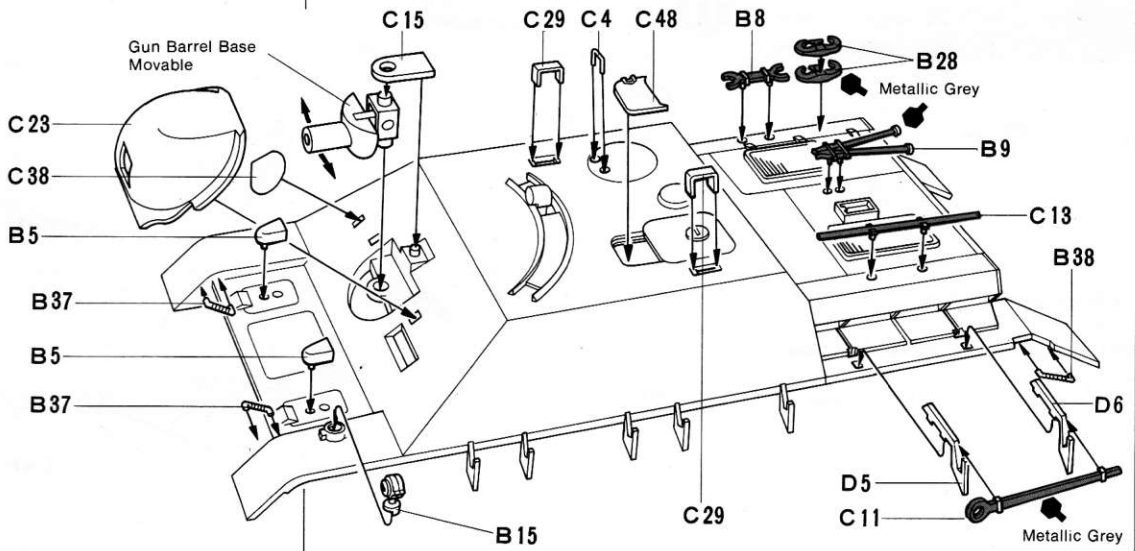
<<Commander's Hatch>>
<<Kommandantenluke>>
C52 C49-C50



8 <<Fixing of Upper Hull Parts A>>
<<Deckaufbauten A>>

Gun Barrel is designed to move up and down, right or left.

Kanonenrohr ist beweglich nach oben, unten, links oder rechts.

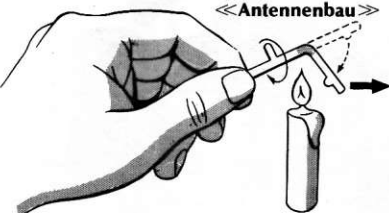


9 <<Fixing of Gun Barrel>>
<<Einbau der Kanone>>

This kit contains 75mm short barreled cannon and 75mm long barreled cannon.

Dieser Kit enthält 2 Satz ver schiedenner Kanonen für Ausführung kurz oder lang.

<<How to make Antenna>>
<<Antennenbau>>

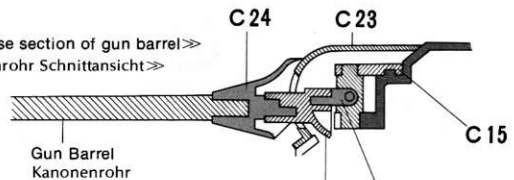


★Prepare about 15mm long runner. Heat the center while revolving.

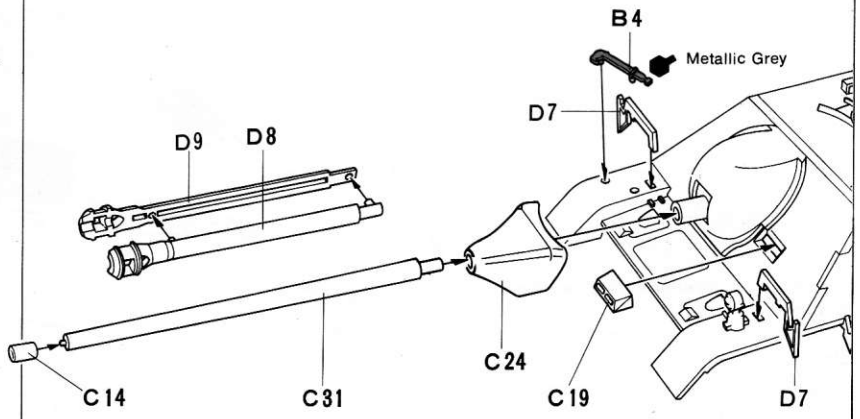
When it begins to melt, stop heating and stretch slowly. Cut one 6cm long piece.

★Ein Stück vom Spritzling über Kerze gerade biegen. Dann in der Mitte im Drehen erhitzen. Wenn das Plastik schmilzt, nicht weiter erhizen und langsam auseinanderziehen und ca. 15 Sec. abkühlen 6cm abschneiden.

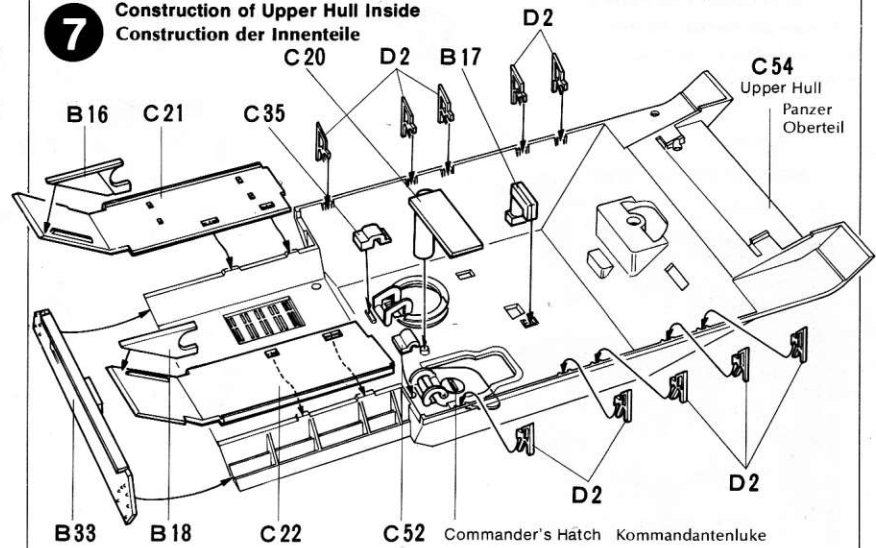
<<transverse section of gun barrel>>
<<Kanonenrohr Schnittansicht>>



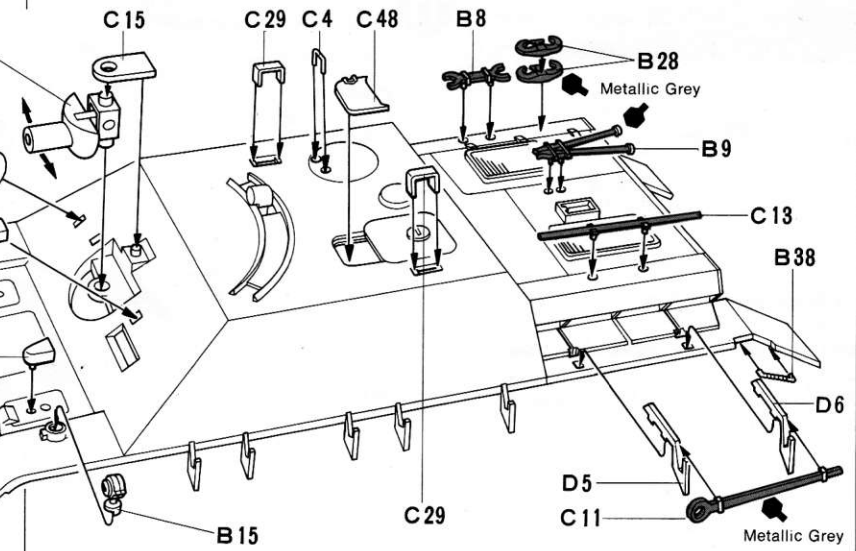
9 Fixing of Gun Barrel
Einbau der Kanone



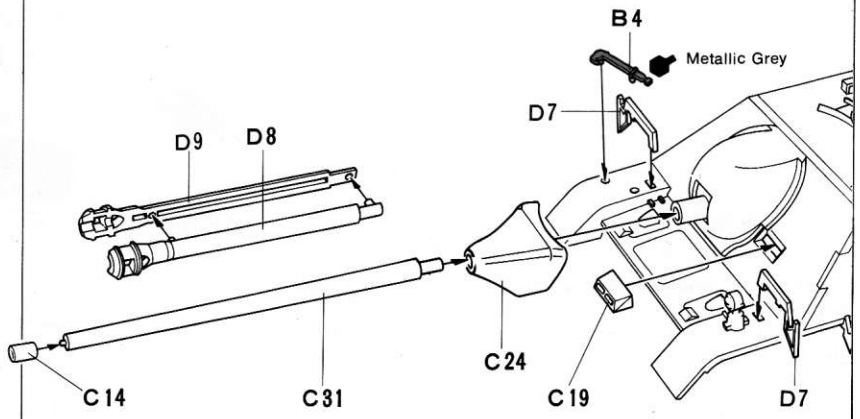
7 Construction of Upper Hull Inside
Construction der Innenteile



8 Fixing of Upper Hull Parts A
Einbau der Deckaufbauten A



9 Fixing of Gun Barrel
Einbau der Kanone

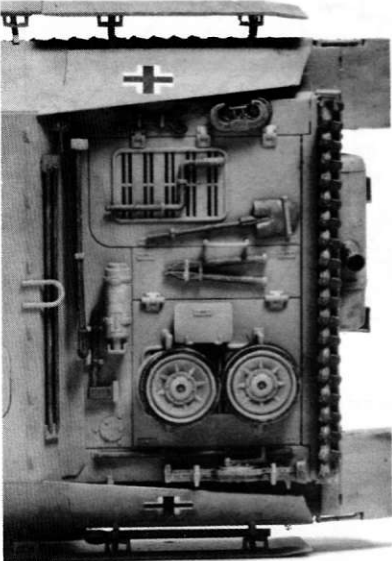


«Fixing of Upper Hull Parts B»

«Einbau der Deckaufbauten B»

Refer to below photograph.

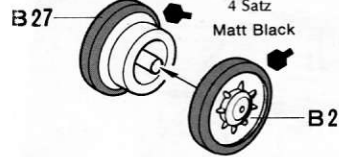
Siehe unten Foto.



«Spare Wheel»

«Ersatzrad»

Make 4 sets
4 Satz
Matt Black

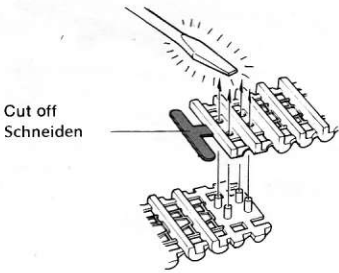


«Construction of Tracks»

«Ketten»

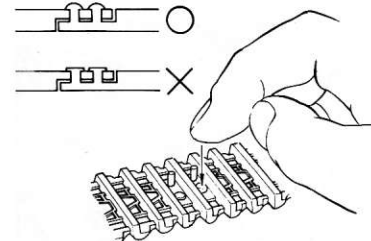
Melt pin heads with a heated screwdriver blade etc.

Zapfen mit heissem Schraubenzieher anschmelzen.

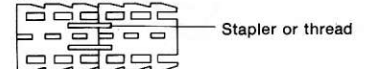


Immediately after that, press pin heads.

Sofort Zapfen gerade pressen.



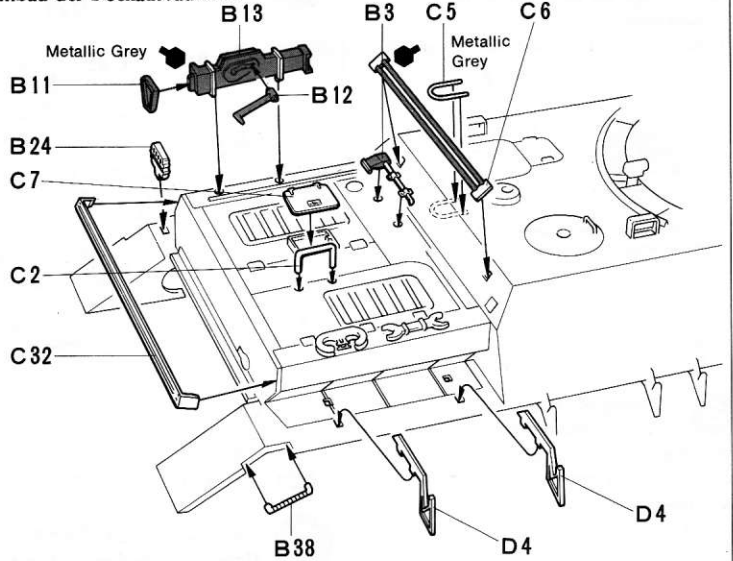
If track broken, strengthen with staplers, or thread.



10

Fixing of Upper Hull Parts B

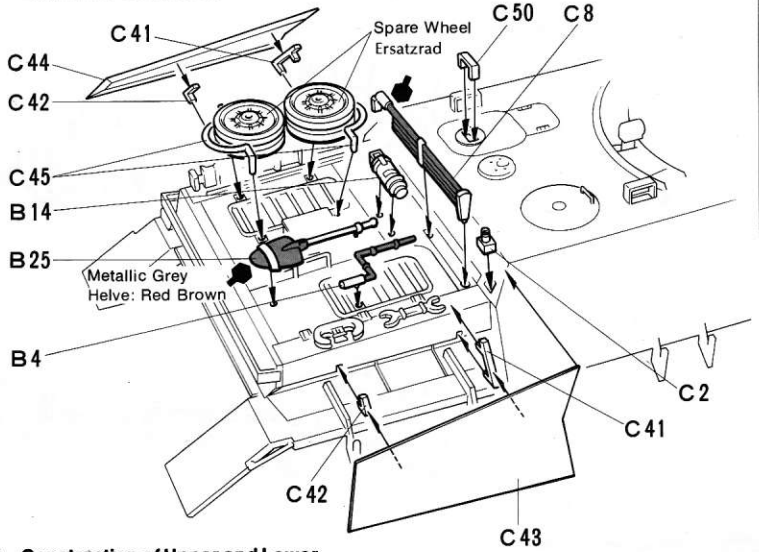
Einbau der Deckaufbauten B



11

Fixing of Upper Hull Parts C

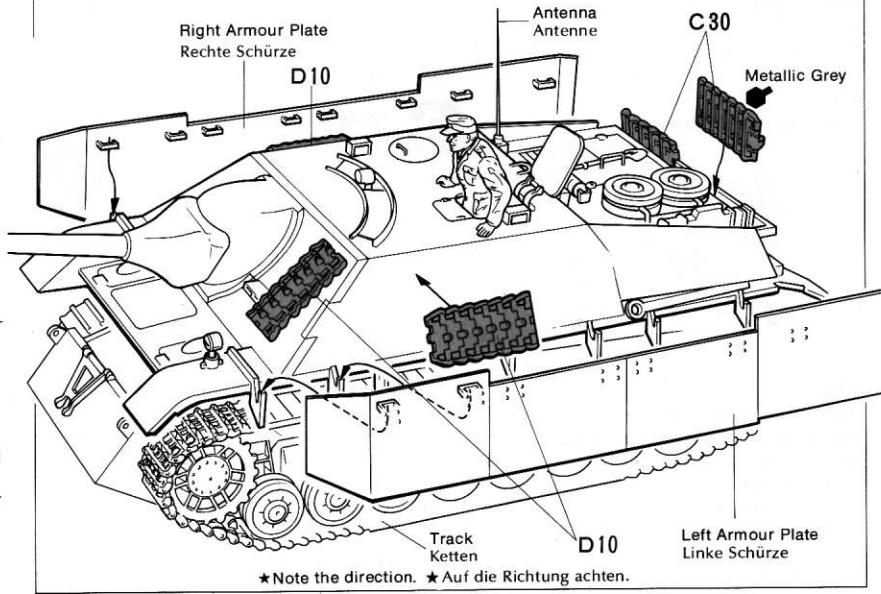
Einbau der Deckaufbauten C



12

Construction of Upper and Lower

Zusammenbau des Ober und Unterteiles



*Note the direction. *Auf die Richtung achten.

PAINTING



APPLYING DECALS

<<Painting of Jagdpanzer IV L/70>>

The Jagdpanzer IV L/70 was detailed at the end of 1943. On 18th February of that year, the German Army authorities ordered to use dark yellow as the basic colour of vehicles in place of German grey which had been used as such use until that time. Therefore, Jagdpanzer IV L/70 was basically painted dark yellow. Field forces, however, often put other colours for camouflage on the basic colour according to the terrain of the battlefield where they fought. There were no fixed camouflage patterns. They freely put red brown, and/or dark green on the basic colour by means of brushes or spray guns.

<< Bemalung >>

Der Jagdpanzer kam Ende 1943 zum Einsatz. Am 18. Februar dieses Jahres wurde von der Heeresleitung die übliche graue Farbe durch das dunkelgelb ersetzt. Die Grundfarbe des Jagdpanzer IV L/70 war deshalb dunkelgelb. Die Fronttruppen bemalten ihre Fahrzeuge noch zusätzlich — je nach Einsatzort — zur Tarnung mit dunkelbraun, rotbraun oder dunkelgrün.

<<Marking of Jagdpanzer IV L/70>>

Jagdpanzer IV L/70 wore Arabic numerals of three figures on the sides of the fighting compartment in the upper part of the hull. These numerals were the hull number which showed the unit of individual tanks in the same way as the turret number seen on the turret of German tanks.

Example

102 2nd vehicle of 1st Company HQ
214 4th vehicle of 1st Platoon, 2nd Company.

Die Fahrzeuge trugen oberhalb der Wanne 3 stellige arabische Zahlen: z.B. 102 2. Fahrzeug der 1. Komp. 214 4. Fahrzeug des 1. Zuges der 2. Kompanie

BUILT A COLLECTION OF TAMIYA 1/35 SCALE TANK AND ARMORED CAR MODELS

1/35 PANZER KAMPFWAGEN II

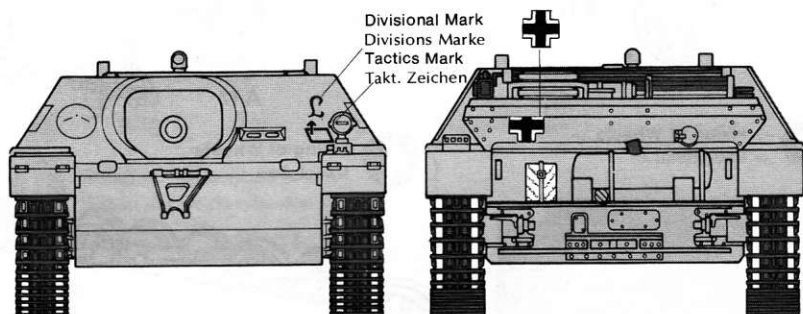
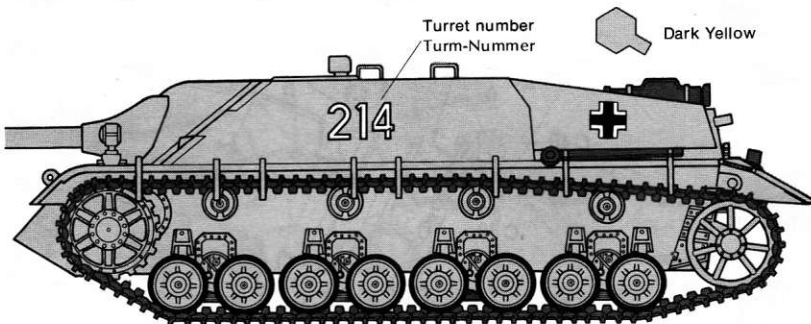


1/35 PANZER KAMPFWAGEN III

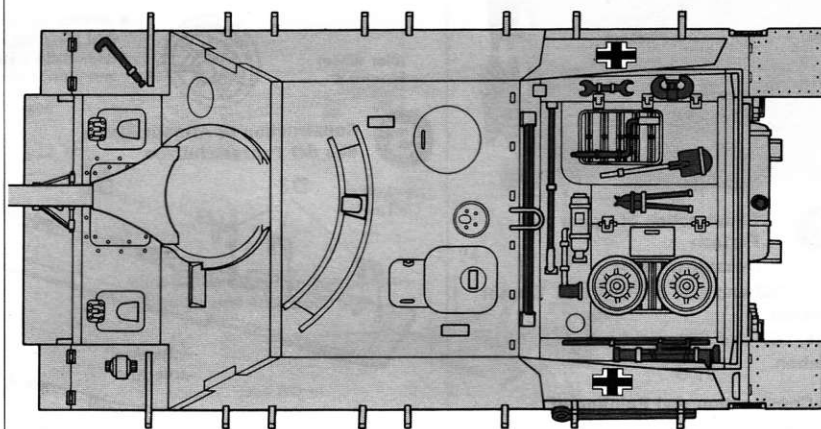


<<Marking and Painting of Lang>>

<<Markierung und Bemalung>>



Divisional Mark	Dark Yellow	Dark Green	Red Brown	Tactics Mark
	Panzer Training Div.		9th Panzer Div.	
	2nd Panzer Div.		116th Panzer Div.	Tactics Mark of Battalion



<<Comouflage Pattern>>

